

SAINT JOSEPH					
CONTENT				CATHOLIC IDENTITY	MATHEMATICS
Month & Overarching Question	Content	Essential Questions	Books & Materials	Essential Questions	The Number System Operations & Algebraic Thinking Number Operations in Base Ten Number Operations - Fractions Measurement & Data Geometry
SEPTEMBER					
What are some ways to think about addition and subtraction? What are strategies for finding addition facts? Key Math Terms: part, sum, whole, add, plus, equals, doubles, near doubles, addend, number sentence	Topic 1: Understanding Addition and Subtraction. Topic 2: Addition strategies. Introduce Number Talks	How do I use addition and subtraction within 100 to solve one- and two-step word problems? Can I fluently add within 20? How can I explain my thinking through verbal and written expression using key math terms?	Connecting cubes, paper bag, Adding and Subtracting with the Ducks story, Addition Stories game, The Math Machine story, Make Tens game	The Parable of the Loaves and the Fishes-How did Jesus show his followers that he could feed them by increasing the amount of food?	2.OA.A.1; 2.OA.B.2
OCTOBER					
What are strategies for finding subtraction facts? What is the relationship between arrays and repeated addition? Key Math Terms: subtract, doubles, array, number sentence	Topic 3: Subtraction strategies. Topic 4: Working with equal groups. Introduce math journals.	How do I fluently subtract within 20? How can I show addition using arrays and number sentences?	Flying Subtraction story, Subtract 0,1,and 2 game, Addition Fair story, Skip Count game	Can you create an array of people sitting in mass?	2.OA.B.2; 2.OA.C.4
NOVEMBER					
How can numbers to 100 be shown and compared? How can sums be found mentally? Key Math Terms: digits, greater than, less than, equal to	Topic 5: Place value to 100. Topic 6: Mental addition	How do I read, write, count, and compare numbers? How do I add using strategies based on place value and properties of operation?	Collections for Counting story, Model Tens and Ones game, Count on by the Seasons story, Make a Ten game, base-ten blocks	The Parable of the Lost Sheep. The Shepherd had 100 sheep and lost 1. How can you use this story to create your own word problem?	2.NBT.A.1; 2.NBT.A.2; 2.NBT.A.3; 2.NBT.A.4; 2.NBT.B.5
DECEMBER					
How can differences be found mentally?	Topic 7: Mental Subtraction	How do I subtract using strategies based on place value and properties of operation?	Animal Subtraction story, Mental Math Facts game	Can you create a subtraction problem to represent how many days left in Advent?	2.NBT.B.5
JANUARY					
What is the standard procedure for adding two-digit numbers? What is the standard procedure for subtracting two-digit numbers?	Topic 8: Adding two-digit numbers. Topic 9: Subtracting two-digit numbers	How do I fluently add two-digit numbers within 100? How do I fluently subtract two-digit numbers within 100?	Adding with the Biggles story, Trade Tens game, Subtraction Around the House story, Break Down the Tens game	Write a parable about the arc using addition or subtraction with two- digit numbers.	2.NBT.B.5
FEBRUARY					

What number patterns are helpful in reading and writing numbers to 1,000? What are ways to add and subtract three-digit numbers?	Topic 10: Place value to 1,000. Topic 11: Three-digit addition and subtraction.	How do I read, write, and count numbers to 1,000? How do I compare two three-digit numbers? How do I add and subtract within 1,000 using models and strategies?	Hundreds of Windows story, Tens and Ones game, Are There Enough? story, Three-Digit Treasure game, base-ten blocks	Can you understand that the A.D. calendar marks the death of Jesus and counts up to the 2000s?	2.NBT.A.2; 2.NBT.A.3; 2.NBT.A.4; 2.NBT.B.7
MARCH					
How can shapes and solids be described, compared, and used to make other shapes? What strategies can be used to count money? Key Math Terms: solid figure, sphere, pyramid, cylinder, cone, cube, rectangular prism, edges, vertices, polygon, quadrilateral, pentagon, hexagon, dime, nickel, penny, quarter, cents, dollar bill, dollar sign, dollar coin	Topic 12: Geometry. Topic 13: Counting Money	How do I reason with shapes and their attributes? How do I work with money?	Building Blocks story, Shape Party game, Farm Cents story, Count to the Castle game, play money, GeoBoards	How can you use the shapes to create a stained glass window for church? How can you use the shapes to create a picture of the world that God created for us?	2.MD.C.8 2.G.A.1; 2.G.A.2; 2.G.A.3
APRIL					
How can sums and differences be estimated? What is the process for measuring length? Key Math Terms: length, width, height, unit, inch, yard, foot, centimeter, meter	Topic 14: Money. Topic 15: Measuring Length	How do I add and subtract money problems? How do I measure and estimate lengths in standard units?	Using Addition at the Arts and Crafts Fair story, Robot Addition game, Animal Measurement story, Measurement Hunt game, play money, inch ruler, centimeter ruler, yard stick	Can you construct a crucifix using pre-determined measurements?	2.MD.C.8; 2.MD.A.1; 2.MD.A.2; 2.MD.A.3; 2.MD.A.4
MAY					
How can clocks, bar graphs, and pictographs be used to show data and answer questions? Key Math Terms: hour, minute, data, bar graph, line plot	Topic 16: Time, Graphs, and Data.	How do I work with time, represent and interpret data?	-Our Favorite Things Game! Judy Clocks	How can you create a bar graph with classmates to show your favorite parable?	2.MD.C.7; 2.MD.D.9; 2.MD.D.10
JUNE					

Preparation for third grade	-Writing multiplication stories. -Division as sharing. -Writing division stories. - Relating multiplication and division. -Unit fraction and regions. - Non-unit fractions and regions. -Naming fractions of a set. - Showing fractions of a set. -Polygons. -Adding and subtracting in geometry	How do I use multiplication and division within 100 to solve word problems? How do I interpret whole-number quotients of whole numbers? Can I fluently multiply and divide within 100? What is a fraction? How can I categorize shapes? How do I solve real world and mathematical problems involving shapes, perimeters of shapes, and areas of different shapes?	How many ways can you think that God wishes you to grow in third grade?	3.OA.A.2; 3.OA.A.3; 3.OA.C.7;	3.NF.A.1	3.MD.D.8	3.G.A.1
-----------------------------	--	--	---	-------------------------------------	----------	----------	---------